

## UTAH DIVISION OF OIL, GAS AND MINING

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE ☒ WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB. REPORT/ABD. \_\_\_\_\_

DATE FILED 10-22-79

LAND: FEE &amp; PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

U-10060

INDIAN

DRILLING APPROVED: 10-16-79

SPUDDED IN:

COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: 10-18-80 LOCATION ABANDONED- WELL NEVER DRILLED

FIELD: Undesignated 3/86 Theater Circle

UNIT:

COUNTY: Grand

WELL NO. Harvey Federal #1

API NO: 43-019-30559

LOCATION 1650' FT. FROM (N) ~~XX~~ LINE. 330' FT. FROM ~~XX~~ (W) LINE. SW NW 1/4 - 1/4 SEC. 28

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				20S	24E	28	WALTER D. BROADHEAD

Location Abandoned - lost lease; well  
never drilled -

FILE NOTATIONS

Entered in NID File	✓ .....	Checked by Chief	////////
Location Map Pinned	✓ .....	Approval Letter	.....
Card Indexed	✓ .....	Disapproval Letter	.....

COMPLETION DATA:

Date Well Completed .....	Location Inspected
..... WW..... TA.....	Bond released
SW..... OS..... PA.....	State or Fee Land .....

LOGS FILED

Driller's Log.....  
Electric Logs (No.) .....  
E..... I..... Dual I Lat..... GR-L..... Micro.....  
BHC Sonic GR..... Lat..... MI-L..... Sonic.....  
CBLog..... CCLog..... Others.....

VLC  
10-31-90

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☒OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Walter D. Broadhead

## 3. ADDRESS OF OPERATOR

1645 North 7th Street Grand Junction, Colo. 81501

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 1650 FNL 330 FWL SW NW  
990 feet North of the West 1/4 corner Sec. 28 T20S. R24 East.  
At proposed prod. zone SW 1/4 and 330 ft. East

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

5 miles North of Cisco, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

330 Ft.

## 16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

1,000 ft. Morrison

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4520 GR

## 22. APPROX. DATE WORK WILL START\*

Oct. 28, 1979

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" new	17 lb.	100'	25 SX Circulated
6 1/2"	4 1/2" new	9.5 lb.	1000'	40 SX Dowell RFC

Propose to test Salt Wash Member of Morrison Formation  
Surface Use Plan Attached: Water Sands not anticipated  
Surface FMN- Mancos Shale

Estimated Tops:

Dakota : 350- Gas

Buckhorn: 650- Oil and / or Gas

Salt Wash: 870- Oil and / or Gas

Pressure Control: Schematic attached showing 80 BOP, Kill Lines, check valves, &  
Pressure Ratings, Seven Point Plan Attached.

Logging: IES &amp; FDC-CNL, No Coring Planned

Hazards: Experience does not indicate that abnormal pressures or hydrogen Sulfide  
will be encountered.

Starting Date: Oct 28-1979 , 30 days operating time.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

Walter D. Broadhead

TITLE

operator

DATE

10-15-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

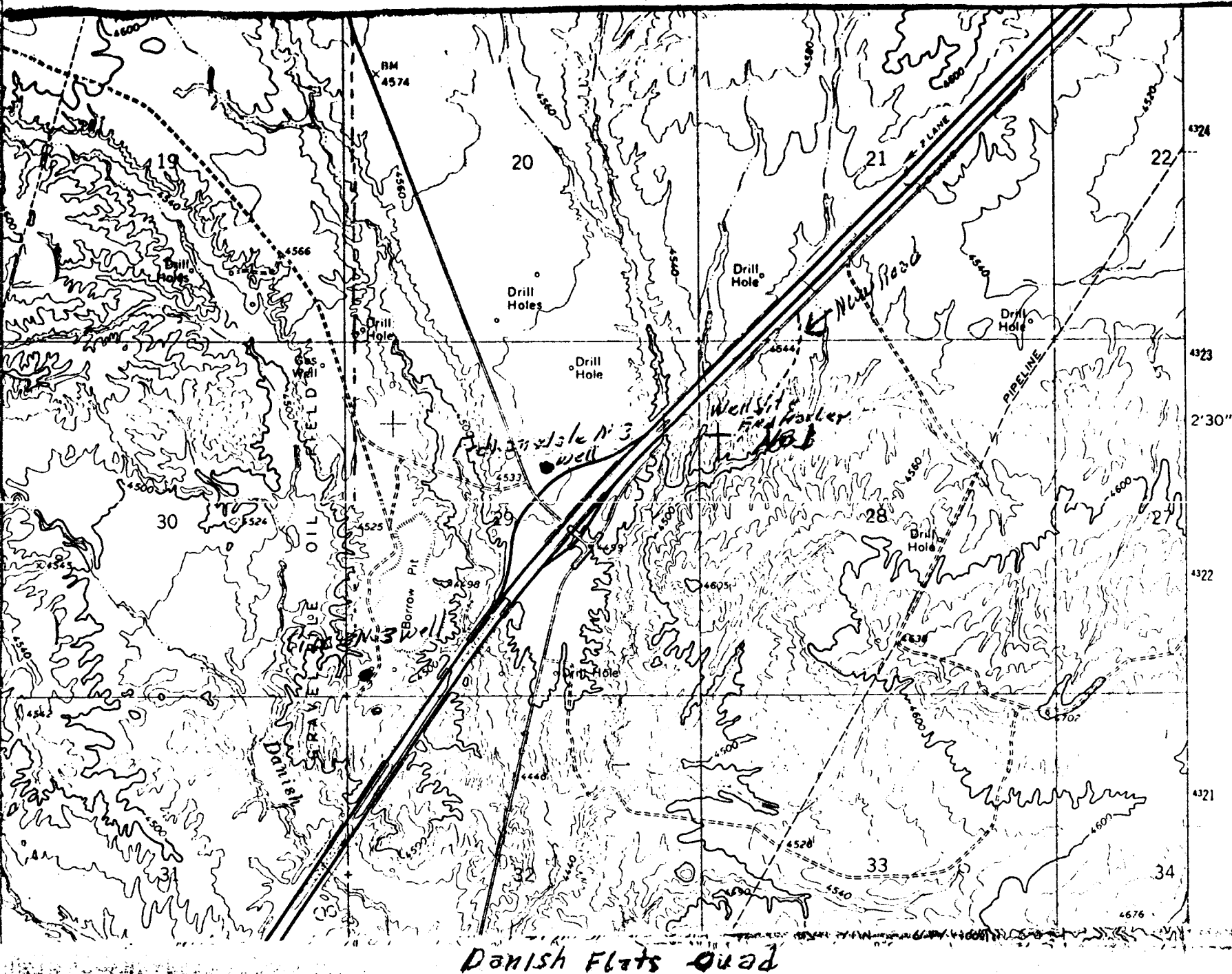
APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side



Walter D. Broadhead  
1645 North Street  
Grand Junction, Colo. 81501

Federal- Harvey No. 1  
NW $\frac{1}{4}$  SW $\frac{1}{4}$  NW $\frac{1}{2}$   
Sec. 28, T 20S, R 24 S, S.L.M.  
Grand County, Utah

---Surface Use Plan---

Geographical: 5 miles Northeast of Cisco, Utah.

Terrain: Low, rolling hills of Mancos shale.

Vegetation: Very sparse.

Surface Water: None. This is dry, desolate, desert country.

1. Existing Roads: Existing roads are 15-18 feet wide , with native ground as surface material. This is primarily Mancos shale with a little Cretaceous gravel in some places.  
Federal Harvey No. 1 is located South of Highway I-70 and east of the East Cisco exit.

The included map shows all access roads and roads within a several mile radius of the location.

There are no immediate plans for improvement of existing roads. If commercial production is found and road improvement is needed, it will be considered at the appropriate time.

2. Planned Access Roads: The map indicates all necessary access roads be constructed which will be to the same physical characteristics as existing roads-15-18 feet wide with native Mancos shale as surface with maximum grades not to exceed 3-4 %. There will be no culverts required and no major cuts and fills required for access to the well applied for. No fence cuts or cattle guards will be required.

A turnout off the County Road will be required for the  $\frac{1}{4}$  mile of road across Federal Land to the referenced location. No drainage design is needed as land is flat.

3. Location of Existing Wells: As you can see from the map, existing wells have been located upon the map. The status of the wells is generally indicated on the map by the manner in which the well is marked. There are no water wells or disposal wells.

The well applied for in this application has been referenced in two directions with reference stakes set at 100 and 150 feet in two directions giving a total reference of 330 feet for the well.

**4. Location of Existing and/ or Proposed Facilities:**

A. There is one tank battery and well  $\frac{1}{2}$  mile West of Proposed well. Gas gathering lines are indicated on the attached map. All lines in the area are surface lines.

b. If production is found, storage facilities will be located on the location. If gas is discovered in commercial quantities, necessary pipelines will be applied for at that time.

Complete protective measures such as fences will be used to protect livestock and wildlife in the area.

c. Rehabilitation of all disturbed areas no longer needed after construction is completed will be returned to smooth contour and all debris will be cleaned up. All pits will be covered and cleaned up after drill operations. Those pits required for production will be fenced.

**5. Location and type of Water Supply:** Water will be acquired either from Cisco Springs, which is about 5 miles north of the proposed well location, or from the Colorado River, which is about 5 miles southwest of Cisco, Utah. Water will be transported by truck. Existing roads will be used to transport water.

No water well will be drilled on the lease.

**6. Source of Construction Materials:** No construction materials such as sand, gravel, stone and soil will be used other than that found in the native location.

In the event that tanks and production equipment are required, gravel will be hauled from Grand Junction, Colorado or Moab, Utah to set tanks on. This gravel will be purchased from private enterprise.

**7. Methods for handling Waste Disposal:**

a. Cuttings- The hole will be mud drilled and cuttings will be contained in pit. These cuttings will be integrated into the pit when covered.

b. Drilling Fluids- Will be contained in steel dirt pits. A dirt pit will be dug to contain excess flow out of the well during cementing and completion operations. Of course, these pits will be cleaned up and covered up.

c. Produced Fluids such as Oil and Water- Will be properly disposed of with oil being stored on tanks and water being diverted to the pit and disposed of as required.

d. Sewage- A portable chemical toilet will be provided on location during drilling operations.

## Surface Use Plan (cor'')

- e. Garbage and Other Waste Material- Will be contained in 30 gallon galvanized garbage cans and hauled off the location.
- f. As stated before, the entire well site area will be properly cleaned up and restored to smooth contour when the rig moves out. Only that part of the location required for production operations will be kept in use. In the event of a dry hole, the only appurtenance left at the location will be the required dry hole marker.
8. Ancillary Facilities: There will be no camps or air strips required for this drilling operation.
9. Well Site Layout: A plat on a scale of 1"=40' is included with the Application showing location and orientation of the drilling rig, mud tanks, reserve pit, pipe racks and other appurtenances to the operation. For the time being pits will be unlined as allowed by present law. The only water introduced into these pits will be fresh water used in the drilling operation.
10. Plans for Restoration of Surface: As stated before, the entire location will be restored to smooth contour. Plan to broadcast Crested Wheat grass at 4 lb. per acre and harrow in seed. Crested Wheat will provide nurse crop for establishment of native grasses and shrubs.

It is intended to have all locations cleaned up within 60 days after operations are concluded.

### 11. Other Information:

- a. The topography of these locations near Cisco, Utha is a very gentle rolling, flat characteristic. The soil is raw Mancos shale with extremely sparse vegetation. A few coyotes, prairie dogs and cottontail rabbits occupy the entire area.
- b. The only other surface use activities other than petroleum exploration in the area is in spring grazing of the sparse vegetation by cattle and sheep.
- c. The proximity of water has been described at Cisco Spring, (about 5 miles north) or at the Colorado River which is about 5 miles southwest of Cisco, Utah. The only occupied dwellings are at Cisco, Utah, which has been located already. There will be no disturbance to archeological, historical or cultural sites by drilling the applied- for well in the present application. The land is under the jurisdiction of the Bureau of Land Management.

### 12. Operator's Representative:

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501  
303-242-7717

Surface Use Plan (cont.)

13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statement made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be the terms and conditions under which it is approved.

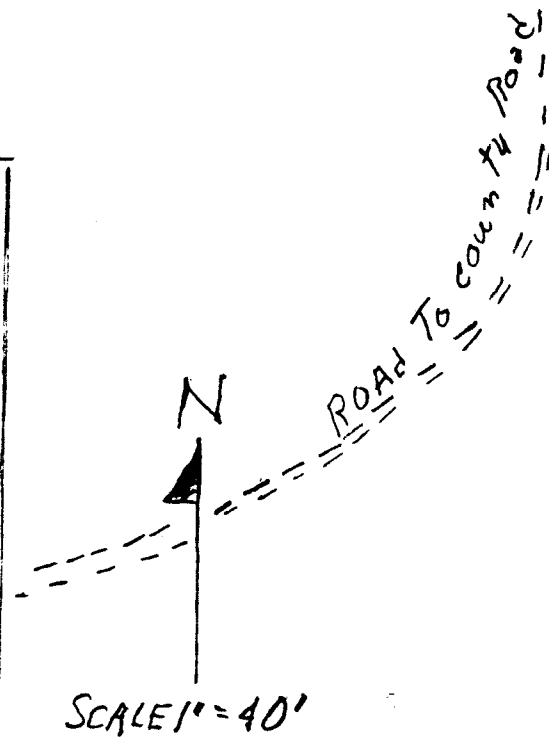
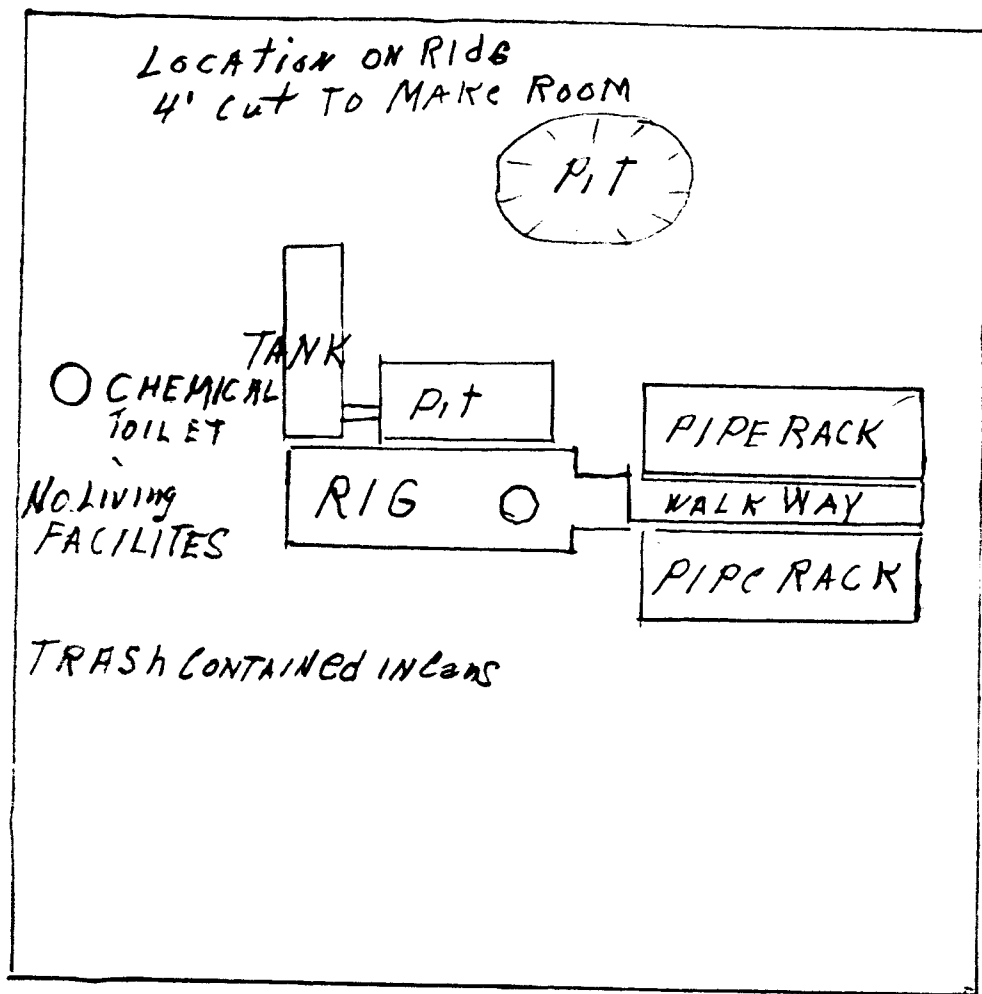
Oct 15, 1979

Date

Walter D. Broadhead

Walter D. Broadhead





NW SW NW  
SEC 28, T20S, R 24E  
GRAND COUNTY, UTAH

SITE LAYOUT  
FEDERAL HARVEY No. 1

WALTER BROADHEAD  
1645 N. 7th St.  
Grand Junction, Colorado 81501

Re: Well No. Fed Haystack No 1

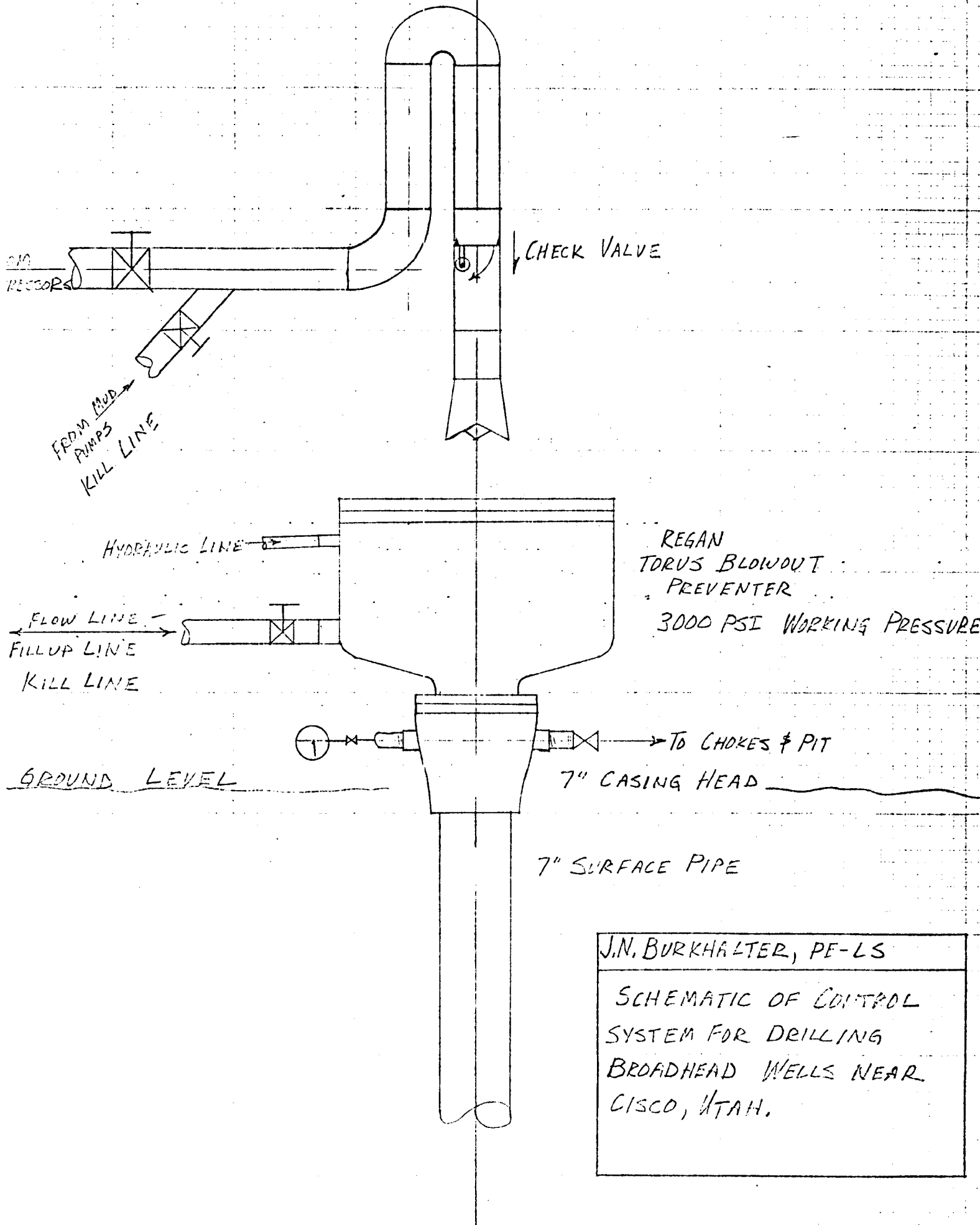
Sec. 28, T20S, R24E, SLB&M

Grand County, Utah

Lease: K-10060

PRESSURE MONITORING AND CONTROL DATA  
SEVEN POINT PLAN

1. Surface Casing: Set at ~~200'~~ 100'  
Size 7"  
Weight 17 lb.  
Length Range 2  
Grade J-55 new. Tested to 3000 psig.
2. Casing Heads:  
Series 600 - 1500 psi working pressure.
3. Production Casing:  
Size 4-1/2"  
Weight 9.5 lb.  
Length Range 3  
Grade J-50, new, tested to 3000 psig.
4. Pressure Control:  
BOP Regan Torus BOP  
Series 600 - Tested to 3000 psig.  
Rams One size fits all - even blind.  
Will use fill, kill and choke lines.
5. Auxiliary Pressure Control:
  - a. Kelly cocks.
  - b. Check valve at bit.
  - c. Monitoring equipment on mud system.
  - d. A sub on floor with a full opening valve to be stabbed into drill pipe when Kelly is out of string.
6. Anticipated Bottom Hole Pressure:  
550 psig.
7. The Type of Drilling Fluid:  
Air until gas encountered. GEL  
Mud up with ~~Polymer~~ mud with NaCl and CaCl<sub>2</sub> as weighting agent - 10.5 to 11.00 lb. per gal. as required.



J.N. BURKHALTER, PE-LS

SCHEMATIC OF CONTROL  
 SYSTEM FOR DRILLING  
 BROADHEAD WELLS NEAR  
 CISCO, UTAH.

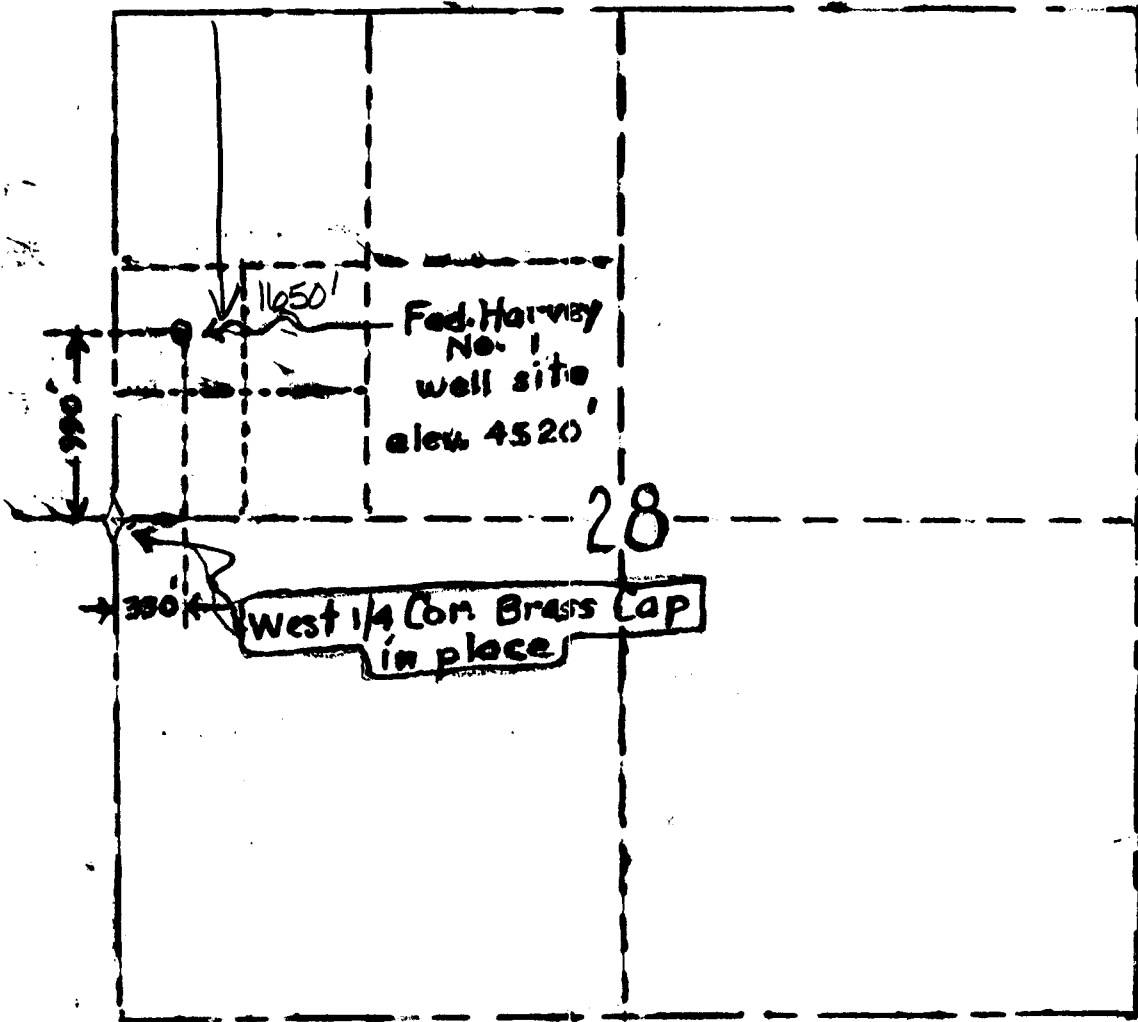
WELL LOCATION

FEDERAL

HARVEY

NO. 1

in the  
990 ft North of the West  $\frac{1}{4}$  Corner of Sec. 28 T 20 S  
R. 24 East S.L.N. 330' East of same.



Oct. 9-1979

Surveyed, drawn and certified by H.D. Clark

Henry Dennison Clark  
Colorado Registered Land Surveyor  
No. 689

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: ~~UTAH~~

SERIAL No.: U-10060

and hereby designates

NAME: ~~Walter D. Broadhead~~

ADDRESS: ~~1645 North 7th Street~~

~~Grand Junction, Colorado 81501~~

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Grand County-Utah

T20S, R24E SL Meridian

Sec. 28', NW  $\frac{1}{4}$

160 Acres

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

  
M. J. HARVEY, JR.

(Signature of lessee)

Sept. 28-1979

(Date)

P.O. Box 12705, Dallas, TX 75221

(Address)

\*\* FILE NOTATIONS \*\*

DATE: October 16, 1979

Operator: Walter D. Broadhead

Well No: Harvey Federal #1

Location: Sec. 28 T. 20S R. 24E County: Grand

File Prepared: ☒

Entered on N.I.D.: ☒

Card Indexed: ☒

Completion Sheet: ☒

☒ API Number 43-019-30559

CHECKED BY:

Geological Engineer: \_\_\_\_\_

Petroleum Engineer: \_\_\_\_\_

Director: J

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. 102-16 8/22/79

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception/company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation 3rd

Plotted on Map ☒

Approval Letter Written ☒

WDM

#3

nl  
PI

October 16, 1979

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, CO 81501

Re: Well No. Harvey Federal #1  
Sec. 28, T. 20S, R. 24E.,  
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil and gas well is hereby granted in accordance with the Order issued in Cause No. 102-16 dated August 22, 1979.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER  
Geological Engineer  
Office: 533-5771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30559.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder  
Geological Engineer

/b:tm

cc: USGS